



HEADQUARTERS NEW JERSEY ARMY AND AIR NATIONAL GUARD
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**OPERATING SAFETY TIPS FOR THE M2 AND THE M2A KITCHEN BURNERS
(DOL)**

1. References:

- a. TM 10-7360-204-13.
- b. P.S. The Preventive Maintenance Monthly, January 1999.
- c. FSLOI Number 97-4.
- d. FSLOI Number 90-13.

2. The Air Valve Assembly, NSN 7310-00-999-2508, of the M2 and M2A burners, must be replaced with, Air Valve Assembly, NSN 7310-01-449-9955.

3. The burner fuel filler cap gasket, NSN 5330-01-278-4024, is to be replaced with the "O" ring filler cap gasket, NSN 5530-01-362-3428.

4. All burners are required to have the Safety Valve device assembly, NSN 7360-01-343-9014, installed as soon as possible. If the burner does not have this device, it is considered unusable (deadline). To check for this device, simply look for a length of copper tubing between the pressure gauge and the mixing chamber. Installation of this device is found in TM 10-7360-204-13&P, Para 4-9,10.

5. To check the safety device, follow the steps listed below:

- a. Check for damaged tubing (replace if needed).
- b. Drain fuel tank.
- c. Use an air compressor (for test only) to pressurize the tank to 55-65 psi, which is when the safety valve will open (bleed air system before use to eliminate moisture).
- d. If safety valve is operating properly, it will open and rapidly decompress to 35-45 psi. If the valve doesn't open or close properly, then replace it.
- e. Check the safety device for leaks with a solution of soapy water. Tighten all loose connections .
- f. Set the burner on its end and slowly turn the filler cap counterclockwise to release the air pressure.

6. Use the proper procedures for starting burner unit as outlined in TM 10-7360-204-13&P. (PMCS).

7. Part number for air valve and gasket, as a kit, with assembly instructions, NSN 7310-01-456-0776.

8. When storing burner unit, drain all fuel from the burner tank and generator (remove generator to drain). Flush fuel tank with solvent (PD680), agitate, then drain. Flush with fuel, then drain again. Reference TM 10-7360-204-13&P, page 4-16, page 4-19. Read warning statement.

9. Remove dirt, grease and carbon prior to storage.

10. Check pressure gauge for operation and damage. Replace as needed.

11. When replacing the burner head (STAR), ensure that you do not over tighten the bolt. Check the welds on the mixing chamber prior to installing the burner head onto the unit.

12. All burner units must have ¼ inch **FLAT** washers (NSN 5310-00-639-7654) installed between the burner frame, fuel air tank brackets and the shutter bracket. This eliminates the rubbing of the fuel air tank, when inserted and removed from the M59 range.

13. Burner units (M2 and M2A) shall be pressure tested by unit maintenance section quarterly and entered on corresponding maintenance records. This is to insure stability of fuel air tanks.

14. POC for additional information, CW2 John S. Garrison, (606)562-0216.

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